Technical Data Data Sheet 3155, Rev. -

Power Surface Mount Schottky Rectifier (200V, 120Amp)

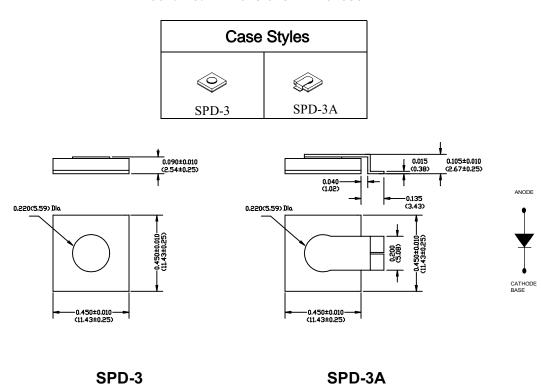
Applications:

- Switching power supplies Converters Reverse battery protection
- Redundant power subsystems Many other high current AC/DC power supplies.

Features:

- 175°C T_J operation
- Low forward voltage drop
- Low reverse leakage current
- High surge capacities
- Low power loss, high efficiency
- Guaranteed reverse avalanche capability
- High frequency operation
- Low profile surface mount package

Mechanical Dimensions: In Inches / mm



Suffix "R" Denotes Reversed Polarity

[•] World Wide Web Site - http://www.sensitron.com • E-Mail Address - sales@sensitron.com •



Data Sheet 3155, Rev. - **Maximum Ratings**:

Characteristics	Symbol	Condition	Max.	Units
Peak Inverse Voltage	V_{RWM}	-	200	V
		500/ 1 / 1	400	^
Max. Average	I _{F(AV)}	50% duty cycle, rectangular	120	А
Forward Current		wave form		
Max. Peak One	I _{FSM}	8.3 ms, Sine pulse	1650	Α
Cycle Non-		•		
Repetitive Surge				
Current				

Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop	V _{F1}	@ 120 A, Pulse, T _J = 25 °C	0.95	V
	V_{F2}	@ 120 A, Pulse, T _J = 125 °C	0.79	V
Max. Reverse	I _{R1}	@V _R = 200 V, Pulse,	2.1	mA
Current		T _J = 25 °C		
	I_{R2}	@V _R = 200 V, Pulse,	48	mA
		T _J = 125 °C		
Max. Junction	C_T	$@V_R = 5 \text{ V}, T_C = 25 ^{\circ}\text{C}$	1800	pF
Capacitance		$f_{SIG} = 1MHz,$		
		$V_{SIG} = 50 \text{ mV (p-p)}$		

Thermal-Mechanical Specifications:

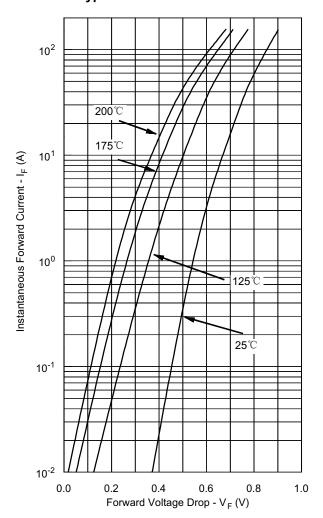
Characteristics	Symbol	Condition	Specification	Units
Max. Junction	TJ	-	-55 to +175	°C
Temperature				
Max. Storage	T_{stg}	-	-55 to +175	°C
Temperature				
Max. Thermal	$R_{ heta JC}$	DC operation	0.20	°C/W
Resistance	000	•		
Junction to Case				
Case Style		SPD-3/A		

^{• 221} West Industry Court 🗏 Deer Park, NY 11729-4681 🗏 (631) 586-7600 FAX (631) 242-9798 •

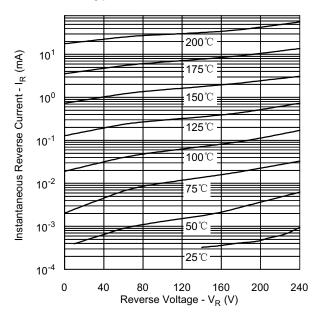
[•] World Wide Web Site - http://www.sensitron.com • E-Mail Address - sales@sensitron.com •

Data Sheet 3155, Rev. -

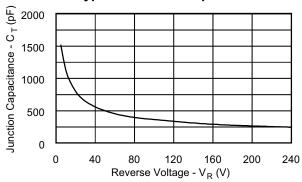
Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance



^{• 221} West Industry Court ☐ Deer Park, NY 11729-4681 ☐ (631) 586-7600 FAX (631) 242-9798 •

[•] World Wide Web Site - http://www.sensitron.com • E-Mail Address - sales@sensitron.com •